

What is claimed is:

1. A molding device for blow-molding or stretch-blow-molding containers from heated thermoplastic preforms,  
5 said device comprising at least one mold comprising at least two half-molds that can be moved with respect to each other between an open position in which they are parted from one another and a closed position in which they are firmly pressed against one another via  
10 collaborating respective bearing faces defining a parting line, locking means being provided to lock the two half-molds in the closed position, wherein:
  - the locking means comprise two lock elements mounted respectively on the two half-molds along the edges of the respective bearing faces and extending substantially over the entire height of said half-molds,
  - each lock element comprises a multiplicity of hook-shaped projecting fingers distributed over the entire height of the lock element and which, on one lock element face away from the bearing face of the corresponding half-mold and, on the other lock element face toward the bearing face of the corresponding half-mold, said fingers of each lock element being substantially parallel and separated from one another by spacings the individual heights of which are slightly greater than the individual heights of the fingers,
  - one of the lock elements being mounted fixedly on the corresponding half-mold and the other lock element being mounted, on the other half-mold, such that it can move so that it can be slid parallel to the axis of the mold,
  - and actuating means functionally associated with said moving lock element in order to move the latter between two positions, namely:
    - a first position or unlocked position in which the

fingers of the moving lock element are positioned respectively level with the spacings between the fingers of the fixed lock element, in which position the two half-molds are not locked together, and

- 5           • a second position or locked position in which, with the two half-molds pressed firmly together in the closed position, the moving lock element is moved parallel to the axis of the mold so that its  
10          fingers engage respectively with the fingers of the fixed lock element, in which position the two half-molds are locked together in their closed position.

15         2. The molding device as claimed in claim 1, wherein the number of fingers is as high as possible in relation to the mechanical strength of said fingers, whereby the height of the spacings between the fingers and therefore the travel of the moving lock element between its locked  
20          and unlocked positions are as low as possible.

3. The molding device as claimed in claim 1, wherein the moving lock element is supported, on the corresponding half-mold, by a guide member substantially parallel to the  
25          axis of the mold, on which member said lock element is slidably mounted.

4. The molding device as claimed in claim 3, wherein the guide member is a rod secured to the half-mold, on which  
30          rod the moving lock element is slidably mounted, but prevented from rotating.

5. The molding device as claimed in claim 1, wherein the actuating means for actuating the moving lock element  
35          comprise:

- a return spring able to return said lock element to its aforesaid first position, and

- a positive actuating member secured to said moving lock element and able to act positively thereon in order to move it, against the return force of the spring, toward its second position.

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6. The molding device as claimed in claim 5, characterized in that the positive actuating member is able to be controlled, when the two half-molds are in the closed position, by the other half-mold.

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7. The molding device as claimed in claim 1, characterized in that the fixed lock element forms an integral part of the half-mold.

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8. The molding device as claimed in claim 1, wherein the fixed lock element is produced in the form of a part secured fixedly to the corresponding half-mold.

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9. The molding device as claimed in claim 1, wherein the guide member that guides the moving lock element is supported directly by the corresponding half-mold.

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10. The molding device as claimed in claim 1, wherein the guide member that guides the moving lock element is fixed to an intermediate plate, itself fixed to the half-mold.

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11. The molding device as claimed in claim 1, wherein the mold is of the hinged type with the two half-molds articulated to one another in terms of rotation on a shaft substantially parallel to one side of the parting line, and wherein said locking means are provided on the opposite side of said shaft about which the two half-molds rotate relative to one another.

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12. The molding device as claimed in claim 1, in which each half-mold comprises a shell holder to which there is internally fixed a shell equipped with a molding half-

cavity the parting line being defined by the two shells pressed together when the mold is in the closed position, wherein the locking means are supported by the two shell-holders.